ABSTRACT

An electronic device includes a semiconductor layer in contact with a number of electrodes, wherein the semiconductive layer includes a compound wherein either or both of the following geometric isomers of the compound are present:

$$R_1 < N$$
 N
 N
 N
 N
 R_2

(Trans)

$$R_1 < N > N > R_2$$

(Cis)

wherein:

n is 1, 2 or 3 for the polycyclic moiety; and

 R_1 and R_2 are independently selected from the group consisting of a hydrocarbon ring and a heterocyclic group, wherein R_1 and R_2 are the same or different hydrocarbon ring, the same or different heterocyclic group, or one of R_1 and R_2 is the hydrocarbon ring and the other the heterocyclic group.